

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

Joseph McCrossan et al.

Serial No.: 10/577,968

Filed: May 2, 2006

For: INFORMATION RECORDING  
MEDIUM, AND APPARATUS AND  
METHOD FOR RECORDING  
INFORMATION TO INFORMATION  
RECORDING MEDIUM

Patent Examiner: Alvesteffer, Stephen

Group Art Unit: 2179

Confirmation No.: 5184

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Costa Mesa, California 92626

**REQUEST FOR TELEPHONE INTERVIEW**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sirs:

Applicant requests the courtesy of a Telephone Interview with Examiner Alvesteffer and SPE Bashore on the above identified case.

The present invention claims address the presentation of movies on a recording medium and more particular, providing menus to enable interactive control without interrupting a preferred display of the movie image so that a control can be automatically effectuated as an integral part of the data stream of both video and graphics.

Thus, an editor can coordinate and provide added features to a movie that is being sold, for example, on a BD-ROM with a storage capacity to enable ancillary features to be offered to the viewer. Video and graphic streams can be converted to TS packets and presentation graphic

streams (PG) and interactive graphic streams (IG) converted to TS packets can be multiplexed with the video by the editor to form an AV clip.

The present assignee had/has an ownership interest in Universal Studios and was involved in the sale of movie titles and other audio/video works.

As can be appreciated from our description and the presentation of Figure 5, a display effect such as a menu can be associated with an EPOCH that will enable a start time and a finish time to allow a seamless display of the menu over a streaming movie.

The time axis of an AV clip playback defines a decode timing and playback timing of individual pictures multiplexed in the AV clip which can be synchronized with a video stream. Reference can be made to Figure 11 to disclose a correlation between respective timeout periods correlated with the EPOCH by the editor. See Pages 24-28, Figures 13-15 to have a visual correlation of the integration of editorial choices with a graphic of a multi-page menu.

Finally, to appreciate an example of editorial choices, Figures 15A through 15D show a correlation of content with the video stream and an interactive control segment contained in the graphic stream.

Referring to the attached Claims 29 and 30, we have defined a recording medium having recorded not only a video stream but an intra-related graphic stream utilizing terminology such as “interactive control segment” and “object definition segment” as disclosed in Figures 5 and 8.

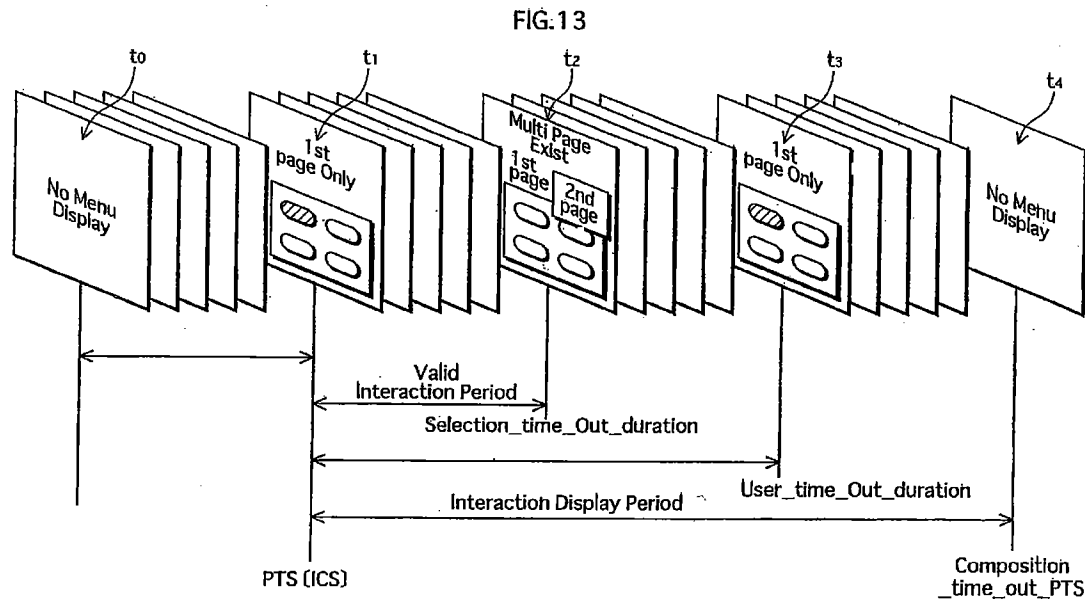


Figure 13 shows an integrated relationship between the video stream segments and the integration of the graphic menu information by the editor with our invention.

*Reisman* (U.S. Patent Publication 2003/02298900) is directed to navigating a hypermedia system via input devices of the Internet, home network, and a wireless network. See Paragraphs 0099-0100 and Figures 2A and 2B.

### Digital Stream

Paragraph 0042 discloses that the hypermedia system is consistent with a Dexter Hypertext Reference Model and the interactive control contemplated by *Reisman* uses a hierarchical data structure consisting of the run-time layer, storage layer and element layer and not the data structure of the graphic stream (object definition system and interactive control segment) of our claims.

### **Object Definition Segment**

Note, the interrelationship between our graphics stream and video stream that is utilized by an editor to present an integrated menu with, for example, a movie. The Office Action contended that Paragraph 0121 taught an object definition segment, as defined in our claims.

However, the ITV screen 320 would have to be contained in the graphic stream. A person of ordinary skill would be aware that it is not reasonable to consider that the data stream of *Reisman* (see Paragraph 0320) can play any role in displaying an ITV screen other than in the ITV system.

### **Interactive Control Segment**

Paragraph 0545 was cited to be equivalent to our interactive control segment while MMUI device could involve an overlay of the main menu on a TV. There is certainly no suggestion of either the object definition segment or the interactive segment as utilized in our invention that exists in a data stream as one constituting element. There is no teaching or foundation to contend that the *Reisman* reference discloses scenario data that can be utilized from any data stream on the basis of a video of being played on the TV.

### **Multi-Page Information**

The Office Action contended that the navigation and hierarchy of *Reisman* Paragraph 0414 could be equivalent to multi-page information.

It is readily apparent, however, that the defined base video, interactive indicator bugs, first level menus, i-th level menus mentioned are not configured nor could be configured to behave in accordance with the proceeding of a video playback. *Reisman* does not teach nor suggest such an ability.

### **Button Information**

Our application supports button information and this can be visually seen in Figure 31 on Page 55.

The Office Action contended that a control panel 920 of *Reisman* is equivalent to one button information and contends that a user might use task bar buttons or control panel entries to select among open resource windows. However, as set forth in our claims, the multi-page information and button information are elements of the interactive control segment.

The scenario of navigation hierarchy described in Paragraphs 0545 and 0414 of *Reisman* do not contain such a containment relationship.

### **Display State of Multi-Page**

The Office Action contended that the navigation hierarchy involving the base video, interactive indicator, first level menus and i-level menus of Paragraph 0414 was equivalent to our multi-page menu.

The present invention refers to a display state of the multi-page menu. However, in order to conclude that Paragraph 0542 discloses a display state, it would be necessary that the base video interactive indicator bugs and the first level menus also must have state change, as in our present invention. However, changes to Paragraph 0542 are only made directly in response to a user request.

### **Time Information**

The Office Action contended that the TVC parameters in Paragraph 0863 could be equivalent to our time information as defined in our claims. However, for this to be supported, the transition of the TV screen or Web page needs to be defined in relationship to the time axis of the video playback proceeding on the TV.

Thus, it would be the TV timeline that would correspond to the time axis of our video stream and there is no description of the TVC parameters of Paragraph 0863 that would suggest or teach any timing for causing the display state changes in Paragraph 0542.

### §103 Rejection

*Malamud* (U.S. Patent No. 5,664,133) was cited for disclosing a cascade menu that could appear after a short delay. (See Fig. 8) *Malamud*, however, only changes the color shade of the triangle 36 in response to a user operation of moving the display pointer, as shown in Figure 2. It teaches no automatic disclosure of a time point indicated by timeout information as defined in our present invention.

*Malamud* also does not automatically activate button material, and finally, the time referred to in *Malamud* refers only to the time taken to present the cascade menu from the moment the display pointer is moved to the corresponding menu item, and certainly does not refer to a time period, on an EPOCH time axis, after a lapse of which the button material and the selected state on the first page, is automatically activated.

Very truly yours,

**SNELL & WILMER L.L.P.**



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**IN THE CLAIMS:**

1.-28. (Cancelled)

29. (Previously Presented) A recording medium having recorded thereon a video stream and a graphics stream, wherein:

the graphics stream includes one or more interactive control segment and an object definition segment defining a graphics object;

5 the interactive control segment includes multi-page information and time information;

the multi-page information defines a display composition of a multi-page menu;

the multi-page information includes one or more button information;

10 the button information indicates information used to present the graphic object in a state of button material and to provide an interactive display composition on the page;

the multi-page menu includes a no menu display state, a first page only display state and a multi-page display state; and

the time information includes information to transition the display state of the multi-page menu in accordance with reproduction proceeding of the video Stream.

30. (Previously Presented) The recording medium according to Claim 29, wherein:

the time information includes time out information; and

5 the time out information indicates a time to automatically activate the button in a selected state on the first page, thereby transitioning from the first page only display state to the multi-page display state.